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In the claims:

Claims 1-20 (Cancelled).

21. **(Previously presented)** A system for receiving a signal comprising:
a receiver receiving the signal further comprising:
a plurality of stages; and
a duty cycle system coupled to two or more of the plurality of stages, the duty cycle system turning each of the two or more of the plurality of stages off and on at a separately-controllable frequency;
an interference avoidance system coupled to the receiver, the interference avoidance system turning the receiver off and on at a controllable frequency; and
wherein the interference avoidance system applies a first duty cycle if interference is present and a second duty cycle if interference is not present.

Claims 22-24 (cancelled).

25. **(Previously presented)** The system of claim 21 wherein the receiver further comprises a mixer stage changing the frequency of the signal, the duty cycle system coupled to the mixer stage turning the mixer stage on and off.

26. **(Previously presented)** The system of claim 21 wherein the receiver further comprises an automatic gain control stage controlling a gain of amplification of the signal, the duty cycle system coupled to the automatic gain control stage and turning the automatic gain control stage on and off.

27. **(Previously presented)** The system of claim 21 further comprising a signal strength system.

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28. **(Previously presented)** The system of claim 21 wherein the interference avoidance system determines whether the magnitude of the signal output changes for a corresponding change in a duty cycle.

29. **(Previously presented)** The system of claim 21 wherein the interference avoidance system receives duty cycle data from a duty cycle system and selects a duty cycle based upon the duty cycle data.

30. **(Previously presented)** The system of claim 21 wherein the receiver further comprises:

- a mixer stage changing the frequency of the signal; and
- a band pass stage filtering the signal.

31. **(Previously presented)** A system for avoiding interference comprising:
a signal input receiving a signal and determining whether interference is present; and
a receiver outputting control data for turning a receiver on and off based on whether interference is present, wherein the signal input receives the signal and determines whether interference is present by adjusting a duty cycle and determining whether a magnitude of an output signal increases or decreases in response to the adjustment of the duty cycle.

32. **(Previously presented)** The system of claim 31 wherein the signal has been processed by a receiver.

33. **(Previously presented)** The system of claim 31 wherein the signal is a spread spectrum signal.

34. **(Previously presented)** The system of claim 31 wherein the receiver cycling output generates duty cycle control data.

Claims 35 through 41 (cancelled).

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42. **(Previously presented)** The system of claim 31 wherein the signal input receives the signal and determines whether the interference is an interfering channel and not system noise.

43. **(Currently amended)** A system for receiving a signal comprising:
a receiver receiving the signal, the receiver comprising:
a mixer stage changing the frequency of the signal;
a band pass stage coupled to the mixer stage, the band pass stage filtering the signal;
a duty cycle system coupled to the mixer stage turning the mixer stage on and off; and
an automatic gain control stage coupled to the band pass stage, the automatic gain control stage controlling the gain of amplification of the signal, the duty cycle system coupled to the automatic gain control stage and turning the automatic gain control stage on and off;
an interference avoidance system coupled to the receiver, the interference avoidance system turning the receiver off and on at a controllable frequency; and
wherein the interference avoidance system applies a first duty cycle if interference is present and a second duty cycle if interference is not present.

Claims 44-45 (cancelled).

46. **(Previously presented)** The system of claim 43 further comprising a signal strength system.

47. **(Previously presented)** The system of claim 43 wherein the interference avoidance system determines whether the magnitude of the signal output changes for a corresponding change in a duty cycle.

48. **(Previously presented)** The system of claim 43 wherein the interference avoidance system receives duty cycle data from a duty cycle system and selects a duty cycle based upon the duty cycle data.